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60/474,637 30 May 2003 (30.05.2003) US(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

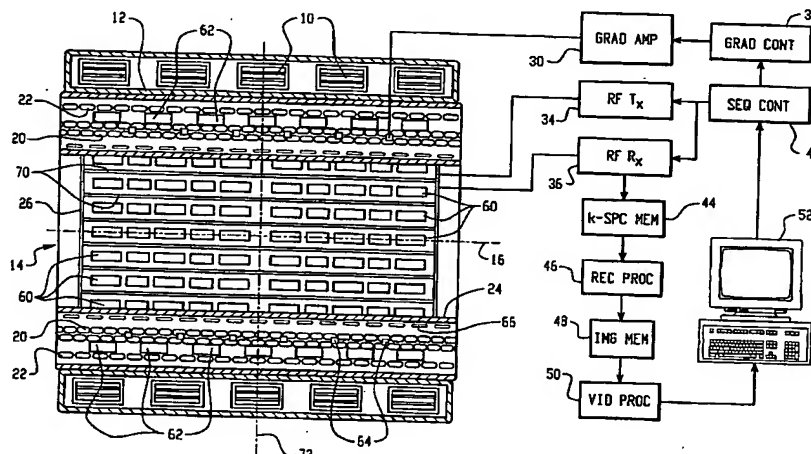
(72) Inventors; and

(75) Inventors/Applicants (for US only): **AMOR, William, H.** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US). **EVERETT, Dennis, K.** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US). **ALDEN, Jerome, S.** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US). **HENDERSON, Robert, G.** [US/US]; 595 Miner Road, Cleveland,Ohio 44143 (US). **DOYLE, Terrence, M.** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US). **SHARPLESS, Ronald, B.** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US). **MULDER, Gerardus, B., J.** [NL/NL]; P.O. Box 220, NL-5600 AE Eindhoven (NL). **PEEREN, Gerardus, N.** [NL/NL]; P.O. Box 220, NL-5600 AE Eindhoven (NL).(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; C/O LUNDIN, Thomas, M., 595 Miner Road, Cleveland, OH 44143 (US).

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(54) Title: **MAGNETIC RESONANCE IMAGING SCANNER WITH MOLDED FIXED SHIMS**

(57) Abstract: A magnetic resonance imaging scanner includes a generally cylindrical main magnet assembly (10) that defines a cylinder axis (16). A first set of shims (60) are rigidly positioned inside the main magnet assembly (10) at about a first distance (d1) relative to the cylinder axis (16). A second set of shims (62) are rigidly positioned inside the main magnet assembly (10) at about a second distance (d2) relative to the cylinder axis (16). The second distance (d2) is different from the first distance (d1). A generally cylindrical radio frequency coil (26) is arranged inside the main magnet assembly (10) at about a third distance (d3) relative to the cylinder axis (16). A plurality of gradient coils (20) are arranged inside the main magnet assembly (10) at about a fourth distance (d4) relative to the cylinder axis (16).



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